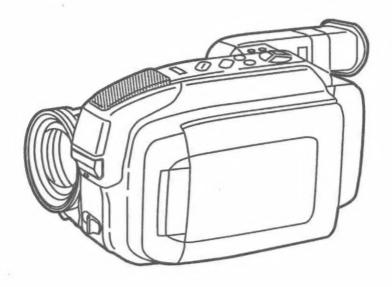
Panasonic®

Palmcorder® PalmSight™

Camcorder

Operating Instructions



VHS**E** PV-L757

Please read these instructions carefully before attempting to operate this product and save this manual.

Spanish Quick Use Guide is included.

Guía para rápida consulta en español está incluida.

VQTW0660 (A)

Things You Should Know

Thank you for choosing Panasonic!

You have purchased one of the most sophisticated and reliable products on the market today. Used properly, it will bring you years of enjoyment. Please take time to fill in the information at right. The serial number is on the tag located on the underside of your Palmcorder. Be sure to retain this manual as your convenient Palmoorder information source.

Date of Purchase	
Dealer Purchased From	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	
Serial No.	

Unpack your Palmcorder

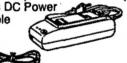
These accessories are provided in order to set up or use your Palmcorder.

1 pc. AC Adaptor (PV-A17) with DC Power Cable

1 pc. Battery Pack (PV-BP18)

1 pc. Audio/Video Cable (VJAW0032)

1 pc. Shoulder Strap (VYCW0149)









1 pc. VHS PlayPak (PV-P1/VYMW0009) and one "AA" battery 1 pc. CR2025 Clock Battery (VSBW0004) (installed in Palmcorder) 1 pc. Wiping Cloth (VFCW0001)







Use this wiping cloth to clean the display screen of finger prints and other smudges.

Safety Precautions

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

Your Compact VHS Palmcorder is designed to record and play back in Standard Play (SP) and Super Long. Play (SLP) modes. You can also play a Compact VHS Palmcorder recording on your VHS VCR using the VHS PlayPak supplied.

This Palmcorder is equipped with the HQ System to provide excellent video pictures, and is compatible with standard VHS equipment.

It is recommended that only cassette tapes that have been tested and inspected for use in VCR machines with the MIST and/or WIS mark be used.



CAUTION

RISK OF ELECTRIC SHOC DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

The above markings are located on the appliance bottom cover.

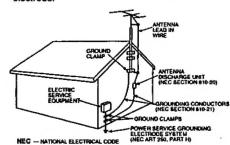
Important Safeguards

- Read Instructions All the safety and operating instructions should be read before the unit is operated.
- Retain Instructions The safety and operating instructions should be retained for future reference.
- Heed Warnings All warnings on the unit and in the operating instructions should be adhered to.
- Follow Instructions All operating and maintenance Instructions should be followed.
- Cleaning Unplug this video unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth for cleaning.
- Attachments Do not use attachments not recommended by the video product manufacturer as they may be hazardous.
- Water and Moisture Do not use this video unit near water — for example near a bath tub, wash bowl, kitchen sink, or taundry tub, in a wet basement, or near a swimming pool, and the like.
- 8. Accessories Do not place this video unit on an unstable cart, stand, tripod, bracket, or table. The video unit may fall, causing serious injury to a child or adult, and serious damage to the unit. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video unit. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may
- combination to overturn.
 9. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video unit and to protect it from overheating. These openings must not be blocked or covered. Never place the video unit on a bed, sola, rug, or other similar surface, or near or over a radiator or heat register. This video unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

cause the appliance and cart

10. Power Sources — This video unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or tocal power company. For video units intended to be operated from battery power, or other sources, refer to the operating instructions.

- 11. Grounding or Polarization This video unit may be equipped with either a polarized 2-wire AC (Alternating Current) line plug (a plug having one blade wider than the other) or 3-wire grounding type plug, a plug having a third (grounding) pin. The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still falls to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
 - The 3-wire grounding type plug will fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.
- 12. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by Items placed upon or against them, paying particular attention to cords of plugs, convenience receptacles, and the point where they exit from the unit.
- 13. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the video unit, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Part 1 of the Canadian Electrical Code, in USA Section 810 of the National Electrical Code, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



14. Lightning — For added protection of this video unit receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video unit due to lightning and power-line surges.

Important Safeguards

- 15. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- Overloading Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 17. Objects and Liquids Never push objects of any kind into this video unit through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind onto the video unit.
- 18. Servicing Do not attempt to service this video unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- Damage Requiring Service Unplug this video unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.

- b. If any liquid has been spilled onto, or objects have fallen into the video unit.
- If the video unit has been exposed to rain or water.
- d. If the video unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video unit to its normal operation.
- If the video unit has been dropped or the cabinet has been damaged.
- When the video unit exhibits a distinct change in performance — this indicates a need for service.
- 20. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- 21. Safety Check— Upon completion of any service or repairs to this video unit, ask the service technician to perform safety checks to determine that the video unit is in safe operating order.

Precautions

USE & LOCATION

- TO AVOID SHOCK HAZARD ... Your Camcorder and power supply should not be exposed to rain or moisture. Do not connect the power supply or operate your Camcorder if it gets wet. Your Camcorder has been designed for outdoor use, however it is not designed to sustain direct exposure to water, rain, sleet, snow, sand, dust, or a direct splashing from a pool or even a cup of coffee. This action could permanently damage the internal parts of your Camcorder. Do not attempt to disassemble this unit. There are no user serviceable parts inside. Unplug your Camcorder from the power supply before cleaning.
- DO NOT AIM YOUR CAMCORDER AT THE SUN OR OTHER BRIGHT OBJECTS.
- DO NOT LEAVE THE PALMCORDER WITH THE EVF AIMED DIRECTLY AT THE SUN AS THIS MAY
 CAUSE DAMAGE TO THE INTERNAL PARTS OF THE EVF.
- DO NOT EXPOSE YOUR CAMCORDER TO EXTENDED HIGH TEMPERATURE ... Such as, in direct sunlight, inside a closed car, next to a heater, etc... This action could permanently damage the internal parts of your Camcorder.
- AVOID SUDDEN CHANGES IN TEMPERATURE ... If the unit is suddenly moved from a cold place to a warm
 place, moisture may form on the tape and inside the unit.
- DO NOT LEAVE YOUR CAMCORDER OR THE POWER SUPPLY TURNED ON WHEN NOT IN USE.
- STORAGE OF YOUR CAMCORDER ... Store and handle your Camcorder in a manner that will not subject it to
 unnecessary movement (avoid shaking and striking). Your Camcorder contains a sensitive pick-up device which
 could be damaged by improper handling or storage.

CARE

- TO CLEAN YOUR CAMCORDER ... Do not use strong or abrasive detergents when cleaning your Camcorder body.
- TO PROTECT THE LENS ... Do not touch the surface of the lens with your hand. Use a commercial camcorder lens solution and lens paper when cleaning the tens. Improper cleaning can scratch the lens coating.
- TO PROTECT THE FINISH OF YOUR CAMCORDER ... Before handling your Camcorder, make sure your hands and face are free from any chemical products, such as suntan lotion, as it may damage the finish.

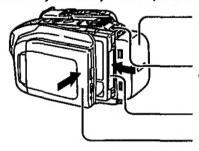
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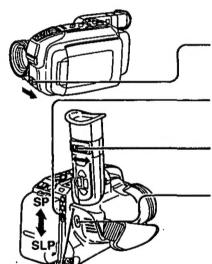
Quick Operation Guide

Camera Recording

Charge the Battery Pack fully before operation (see page 7).



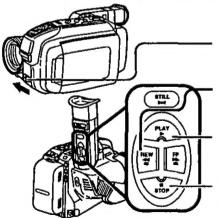
- Attach a fully charged Battery (see page 7).
- 2 Slide the TAPE EJECT switch to open door.
- Insert cassette (see page 10).
- 4 Press here to close door.



- 5 Set POWER switch to CAMERA.
 Built-In Lens Cover opens and POWER
 Lamp lights.
- 6 Slide TAPE SPEED Selector to SP or SLP (see page 10).
- While looking into the Viewfinder, adjust the Vision Adjustment Control to your eyesight.
- Press RECORD/PAUSE to start recording.
 Press RECORD/PAUSE again to pause recording (see page 20).

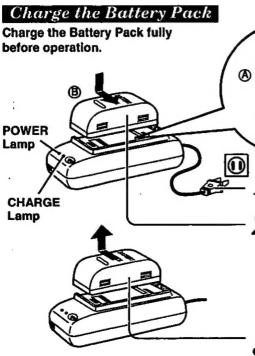
POWER Lamp

To Watch Playback in the EVF (Electronic Viewfinder)



- $m{1}$ Set the POWER switch to VCR.
- Press the REWIND/SEARCH to rewind tape.
- 3 Press PLAY to start playback.
- 4 Press STOP to stop playback.

Supplying Power



Plug in the AC Adaptor.

POWER Lamp lights.

ZInsert the Battery

- A Align the right side of the Battery with the line on the AC Adaptor.
- B Press the Battery down and slide it in the direction of the arrow.

CHARGE Lamp lights. When charging is done (about one and a half hours) the lamp goes out.

Remove the Battery Slide the Battery out and lift up.

even after a sufficient charge.

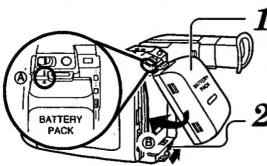
 The useful operation time of the Battery will gradually decrease after repeated use and recharging. The Battery is no longer serviceable if the operation time is very short,

Note:

After recharging the Battery Pack about 5 times, use the BATTERY REFRESH feature as explained on page 8.

Use the Battery Pack

With a fully charged Battery Pack, you will have a maximum of about one and a half hours of continuous use (LCD monitor is off) or about one hour of continuous use (LCD monitor is on). (If the Built-in Light is used, battery operating time decreases.)



Attach the Battery

Align the Battery with the top of the mounting surface.

B Press it into place until it locks with a click.

 $oldsymbol{Z}$ Remove the Battery

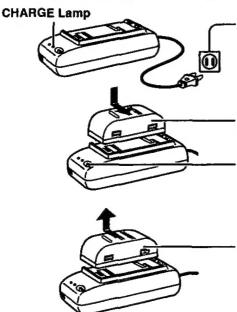
While sliding the BATTERY RELEASE button, remove the Battery.

Supplying Power

Battery Refresh Feature

This feature completely discharges the Battery before recharging begins.

To maintain your Battery's operating capacity, use the refresh feature after about every five charges.



$m{I}$ Plug in the AC Adaptor.

- The POWER Lamp remains lit as long as the AC Adaptor is plugged in.
- 2 Place the Battery into the AC Adaptor.
- Press the BATTERY REFRESH button.

The CHARGE Lamp flashes until discharge is complete and then stays lit until the Battery is fully charged.

$oldsymbol{4}$ Remove the Battery.

- Should you accidentally press the BATTERY REFRESH button, remove the Battery and then re-insert it to begin charging.
- It takes about seven and a half hours when both Battery Refresh and recharging are performed.

To avoid damage to the Battery:

- . Do not drop or jar Battery.
- · Use Battery with specified units only.
- If Battery is used in extremely high temperatures, a safety device will automatically prevent operation.

To prolong battery life:

- While not in use, remove Battery from the Palmcorder and AC Adaptor and store in a cool, dark, dry place.
- · Keep Battery terminals clean.

Battery Care

Caution:

- · Charge only with specified charger.
- Battery can be charged within a temperature range of 32° F (0° C) and 104° F (40° C).
- Battery may be warm after charging or just after use. This is normal.
- Do not use an insufficiently charged or wornout Battery.

Safety precautions:

- Do not get the Battery near, or dispose of in fire.
- Do not directly connect (short circuit) the positive (+) and negative (-) terminals.
- Never attempt to disassemble or reassemble the Battery.

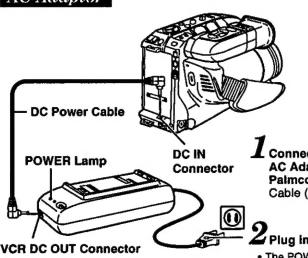
U.S.A. CONSUMERS: - ATTENTION:



The product you have purchased is powered by a nickel cadmium battery which is recyclable. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.

Supplying Power

AC Adaptor



Connect VCR DC OUT on the AC Adaptor to DC IN on the Palmcorder with the DC Power Cable (supplied).

 $oldsymbol{Z}$ Plug in the AC Adaptor

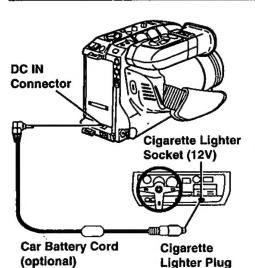
• The POWER Lamp will light.

Notes:

AC Adaptor cannot be used to power the Palmcorder while charging the Battery.

 While not in use, unplug the AC Adaptor from the AC outlet. (When plugged into an AC outlet, the AC Adaptor consumes 1.2W of electric power when not in use.)

Car Battery Cord (Optional)



I Connect a PV-C16 Car Battery Cord (optional) to DC IN on the Palmcorder.

2 First, start your car engine, and then insert the Car Battery Cord plug into your cigarette lighter socket.

 A fuse is located in the lighter plug end of the cord.

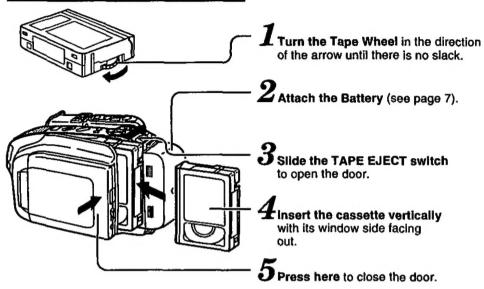
Should fuse replacement be necessary use the exact current rating (in amps).

Notes:

- This cord can only be used in vehicles equipped with DC 12V (negative ground) batteries. Use only the specified car battery cord. If you are not sure, check with your local car/truck dealer.
- To avoid blowing the fuse, be sure to start your car engine before inserting the cigarette lighter plug of the Car Battery Cord into the lighter socket.
- Because the car is running while your Palmcorder is in operation, make sure you're in a well ventilated area.
- Disconnect the cigarette lighter plug when your Palmcorder is not being used.

Cassette Information

Cassette Insertion/Removal



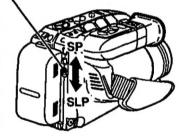
• To remove the cassette, slide the TAPE EJECT switch.

Record/Playback Time

Use tapes with the VHSIP mark in this unit.

Tape Speed Selector	Cassette type		
Position	T-20	T-30	T-40
SP (Standard Play)	20 minutes	30 minutes	40 minutes
SLP (Super Long Play)	1 hour	1 hour 30 minutes	2 hours

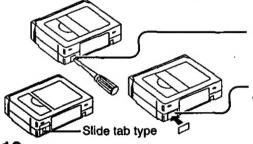
TAPE SPEED Selector



SLP may have slightly more picture noise during playback.

Erase Protection Tab

Cassettes have a record tab to ensure that recordings are not accidentally erased.



To prevent accidental erasure, break off the tab with a screwdriver. (If slide type, slide tab open.)

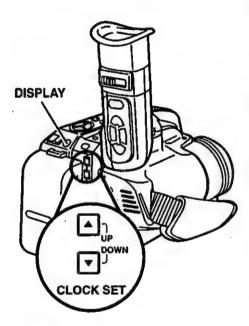
To record again, cover the hole with adhesive tape. (If slide type, slide tab closed.)

10

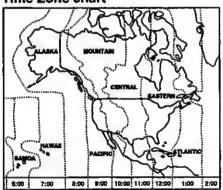
Setting the clock is divided into four sections: Time Zone, Daylight Saving Time, Date and Time, and Clock Battery. Follow instructions in the order presented.

Setting the Time Zone

The Palmcorder is set to Eastern time zone from the factory. If you live or are traveling in a different time zone, follow the steps to select the appropriate time zone from the menu screen.



Time Zone chart



Before you begin...

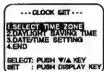
- · Connect the Palmcorder to a power source.
- Set the POWER switch to VCR or CAMERA.

Note: -

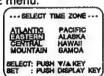
The Palmcorder will exit the CLOCK SET menu if, after activation, none of the CLOCK SET UP/DOWN, (▲/▼) or DISPLAY buttons are pressed within 30 seconds.

The Palmcorder's clock may lose or gain up to two minutes per month. Please adjust as necessary (refer to page 13).

- **1** Press CLOCK SET UP ▲ to display the CLOCK SET menu.
- Press UP ▲ or DOWN ▼ repeatedly to select 1.SELECT TIME ZONE.



Press DISPLAY to display the SELECT TIME ZONE menu.



- 4 Press UP ▲ or DOWN ▼ repeatedly to select desired time zone.
- Press DISPLAY to fix the Time Zone.
 The CLOCK SET menu appears.
 To exit from the CLOCK SET
 menu, press DOWN ▼ to select

4.END, and then press DISPLAY.

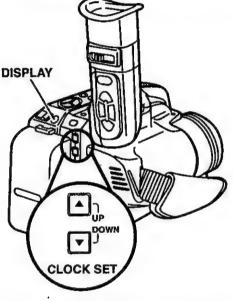
Note: -

When you travel outside the eight time zones shown in the time zone chart at the left, please set the clock manually (see page 13).

Setting the Daylight Saving Time

The clock will automatically adjust to daylight saving time.

The Palmcorder is preset to Daylight Saving Time AUTO. If you do not want the clock to be automatically adjusted to daylight saving time, please select O22 by following steps 1–5.



Spring (First Sunday in April): In DAYLIGHT SAVING TIME: AUTO mode, the clock is automatically moved ahead one hour. 1:00 a.m. 2:00 a.m. Normal Time Daylight Saving Time 3:00 a.m. 4:00 a.m. Autumn (Last Sunday in October): In DAYLIGHT SAVING TIME: AUTO mode, the clock is automatically turned back one hour. Daylight Saving 1:00 a.m. 2:00 a.m. Time Normal Time 1:00 a.m. 2:00 a.m.

Before you begin...

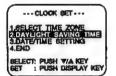
- Connect the Palmcorder to a power source.
- Set the POWER switch to VCR or CAMERA.

Note: -

The Palmcorder will exit the CLOCK SET menu if, after activation, none of the CLOCK SET UP/DOWN, (▲/▼) or DISPLAY buttons are pressed within 30 seconds.

Daylight saving time feature will not function if time zone is set to Hawaii or Samoa.

- Press CLOCK SET UP ▲ to display the CLOCK SET menu.
- Press UP ▲ or DOWN ▼ repeatedly to select 2.DAYLIGHT SAVING TIME.



Press DISPLAY to display the DAYLIGHT SAVING TIME menu.

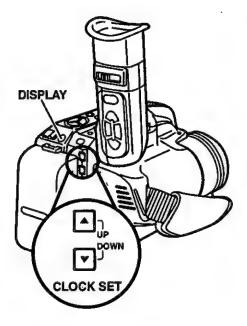


- **4** Press UP ▲ or DOWN ▼ to select AUTO or OFF.
- **5** Press DISPLAY to fix the DAYLIGHT SAVING TIME setting. The CLOCK SET menu appears.

To exit from the CLOCK SET menu, press DOWN ▼ to select 4.END, and then press DISPLAY.

Setting the Date and Time

The date and time is calculated, including leap year, up to DEC 31 2095.



Before you begin...

- Connect the Palmcorder to a power source.
- Set the POWER switch to VCR or CAMERA.

Note: -

The Palmcorder will exit the CLOCK SET menu if, after activation, none of the CLOCK SET UP/DOWN, (A/V) or DISPLAY buttons are pressed within 30 seconds.

Press CLOCK SET UP A to display the CLOCK SET menu.

Press UP ▲ or DOWN ▼ repeatedly to select S.DATE/TIME SETTING.

... CLOCK SET ...

1.SELECT TIME ZONE
2.DAYLIGHT SAVING TIME
6.DATZIME SEMENG
4.END
SELECT: PUSH VA KEY
EST: PUSH DISPLAY KEY

- Press DISPLAY to display the DATE/TIME SETTING menu.
- 4 Press UP ▲ or DOWN ▼ repeatedly (or hold down) to enter the desired numbers, then press DISPLAY to fix that portion and move on.



-5-00:00-PM- AN 1 1996 T



-6:00:00PM-JAN 1 1996 6-00-00PM JAN'1 1996

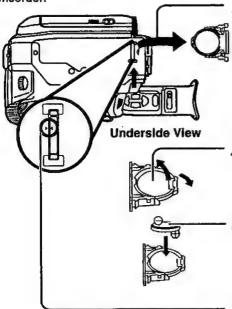
Adjust the flashing digits for the hour, minute, month, day, and year.

When you finish setting the year, the clock starts operating, and the CLOCK SET menu appears.

To exit from the CLOCK SET menu, press DOWN ▼ to select 【AEND】, and then press DISPLAY.

Replacing the Battery

The date and time operates on a miniature battery preinstalled in the underside of your Palmcorder.



While pinching the stopper tabs, pull the Battery Tray out of the Battery Compartment.

2 Remove the Battery by bending the locking tab outward.

Place the new Battery into the Battery tray with the ⊕ mark facing down.
Press down until it snaps into place.

. Do not reverse the polarity.

4 Insert the Battery Tray until both triangle marks meet.

WARNING:

Replace battery with Panasonic PART NO. VSBW0004 (CR2025) only. Use of another battery may present a risk of fire or explosion. Caution-battery may explode if mistreated. Dispose of used battery promptly. Keep away from children. Do not recharge, disassemble or dispose of in fire.

Note:

 Make sure your Palmcorder is off when replacing the Battery.

 Keep the Battery out of the reach of children as swallowing it may be harmful.

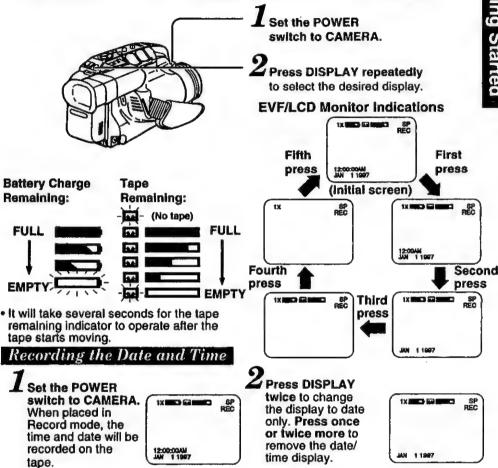
 Improperly installed, discharged, or missing battery will cause "CLOCK BATTERY" to appear when the DISPLAY button is pressed.

· Battery life is approximately 5 years.

Electronic Viewfinder/LCD Monitor Indications

Tape/Battery Remaining

The tape remaining and battery charge level can be displayed during recording.



Only the Date and/or Time indications are recorded on the Tape.

Display-Off Mode

This feature allows you to remove all Electronic Viewfinder/LCD Monitor Indications except Intelligent Titler (see page 36).

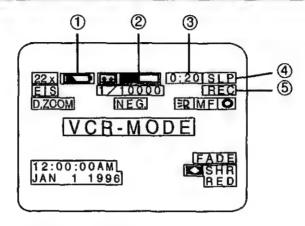
Before inserting a tape, press DISPLAY and STOP together for more than one second to remove the indications except time and date*.

To display the Electronic Viewfinder Indications again, turn the Palmcorder Power off and then on again.

To remove the time and date, press the DISPLAY button repeatedly.



Electronic Viewfinder/LCD Monitor Indications



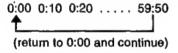
① Battery Remaining Indication - (see page 15)

When a battery recharge is necessary, "WARNING LOW BATTERY" will appear in the EVF. The external Power Lamp will start to flash and the Palmcorder will automatically turn OFF in 15 seconds.

- ② Tape Remaining Indication
 - If the Palmcorder is in the camera mode, (RECORD) with no cassette tape inserted, or the record tab is missing, "@" will flash for one minute and "CHECK TAPE" will appear for 5 seconds.
 - As the tape reaches the end during recording, "

 "will flash and "TAPE END" will appear for 5 seconds as a warning.
- 3 10-Second Reminder

An elapsed time indicator appears one second for every 10 seconds that recording continues. This is a reminder of how long you have been shooting a particular scene and can help keep your recordings fresh and interesting.



- The 10-Second Reminder will reset to 0:00 whenever you press the RECORD/PAUSE button.
- (4) TAPE SPEED Indication (see page 10) Indicates the tape speed (SP or SLP).
- **⑤** Operating Mode Indications

REC (record)

(Appears in large then small characters.)

PAUSE

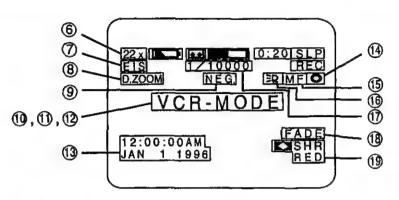
(Appears in large then small characters.)

FF (fast forward)

PLAY

REW (rewind)

Electronic Viewfinder/LCD Monitor Indications



- (6) Zoom Magnification level (see page 28).
- 7 Digital E.I.S. Indication (see page 33).
- ® Digital Zoom Indication (see page 32).
- Negative/Positive Indication (see page 33).
- **(I)** VCR-MODE Indication

Appears for one minute if the POWER switch is set to VCR or the RECORD/PAUSE button is pushed in VCR MODE.

(i) DEW Indication

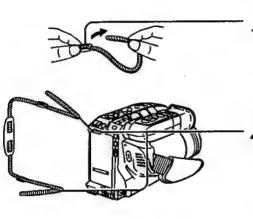
If excessive moisture condenses in the unit, "WARNING DEW DETECTED" will appear, Power Lamp will flash, and the Palmcorder will automatically turn OFF in 15 seconds.

Wait until the indicator no longer flashes when your Palmcorder is turned on before use.

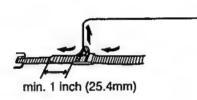
- 1 Motion Security Indication (see page 34).
- 3 Date and Time Indication (see page 13).
- (Backlight Indication (see page 30).
- (5 Manual Focus Indication (see page 29).
- (b Light ON/OFF Indication (see page 19).
- Thigh Speed Shutter Indication (see page 28).
- (B Fade Indication (see page 30).
- (9 Color Digital Fade Indication (see page 31).

Attaching the Shoulder Strap

Make sure the Battery Pack is not attached.

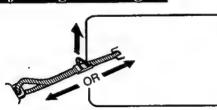


- 1 Undo the two strap ends from their buckles.
- 2 Thread the strap ends through the Strap Attachment Rings.



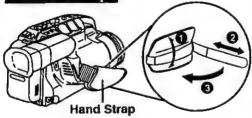
- Reinsert the strap ends through their buckles.
 - · Make sure the straps are not twisted.

Adjusting the Length



- Pull a loop of the strap loose from the buckle.
- 2 Pull the strap firmly through the buckle to shorten or lengthen the strap.

Hand Strap

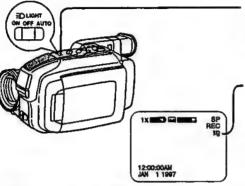


Adjust the length of the Hand Strap to the size of your hand as illustrated.

Built-in Auto Light

Using the Built-in Auto Light

To improve recording indoors or outdoors in dim lighting conditions.



Before you begin...

- · Connect the Palmcorder to a power source.
- Set the POWER switch to CAMERA.

Set the LIGHT switch to AUTO.

The built-in light automatically turns on and off depending on lighting conditions.

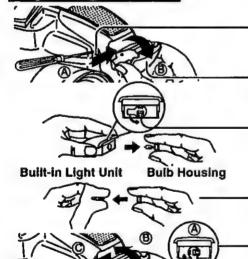
Or set the LIGHT switch to ON/OFF to turn the light on and off manually.

SQ will appear in the EVF while the light is turned on.

Caution:

This light becomes hot during operation. Make sure nothing covers the Light during operation.

Replacing the Bulb



Before you begin...

- · Set the POWER switch to OFF.
- Turn screw counterclockwise and remove.
- 2 Slide the Built-in Light unit to the right to unlock (1) and remove it.
- Turn the Bulb Housing counterclockwise 1/4 of a turn and pull free from the Built-in Light unit.
- 4 Using a clean cloth or tissue, replace the bulb.
- **5** A Replace the Bulb Housing by turning it clockwise. B Next, insert the Built-in Light unit and slide it to the left to lock it in place. Finally, replace the screw.

DANGER:

When replacing the bulb, use only lamp bulbs (PART NO. VLLW0007) supplied by Panasonic to reduce the risk of fire.
Use a cloth or tissue when handling the bulb as finger oils will decrease the bulb life.
To prevent possible burn hazard, disconnect the Built-in Light and allow the lamp to cool before replacing.

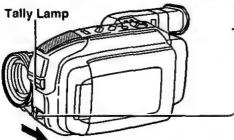
Note:

- · Using the light reduces battery operating time.
- If using the Built-in Light in a hot environment for an extended period of time, be sure to provide ventilation.
- Using the Built-in Light when the Palmcorder is powered by a car battery may shorten bulb life.
- Be sure LIGHT switch is set to OFF when not in use or before placing Palmcorder into an optional carrying case.

Simple Recording

Before you begin...

- · Connect the Palmcorder to a power source.
- . Insert a cassette with record tab (see page 10).



1 Set the POWER switch to CAMERA.
The built-in Lens Cover opens.

EVF

Record/Pause mode.

- With the Viewfinder Eye Cup against your eye, adjust the Vision Adjustment Control to your eyesight.
- Slide the TAPE SPEED Selector to SP or SLP (refer to page 10).
- 4 Press RECORD/PAUSE to start recording.

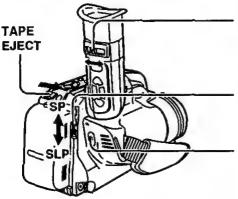
The Tally Lamp and REC Indicator are lit during recording.

RECORD

Press the RECORD/PAUSE again to pause the recording.

Set the Power switch to OFF after recording is finished.

To remove the cassette
 In Record/Pause mode, slide the TAPE EJECT switch (refer to page 10).



WARNING:

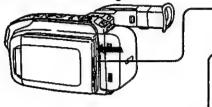
 Do not leave the Palmcorder with the EVF aimed directly at the sun as this may cause damage to the internal parts of the EVF.

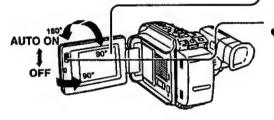


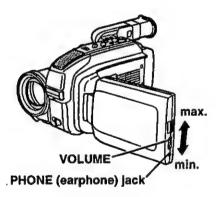
 When your Palmcorder is aimed at excessively bright objects, or bright lights, a vertical bar may appear in the picture. This is a normal characteristic of the CCD pick-up device. Try to avoid this when possible.

Using the LCD Monitor

The LCD (Liquid Crystal Display) monitor can be used while recording.







Before you begin...

Connect the Palmcorder to a power source.

1 Press the LCD-OPEN button to unlock the LCD monitor.

2 Swing the LCD monitor fully open and adjust the angle.

 Rotating the LCD monitor while it is only partially open may block the cassette door and cause damage to the Palmcorder body.

3 LCD AUTO ON

 Set the LCD-POWER switch to AUTO ON. The LCD monitor will then turn on/off according to the Palmcorder's POWER switch setting.

 When the LCD monitor is turned ON, the Viewfinder automatically turns

 If the LCD monitor is rotated 180° to face the same direction as the lens/ subject, the Viewfinder turns back on allowing both you and the subject to monitor the recording.

LCD POWER OFF

 Set the LCD-POWER switch to OFF to have Viewfinder on only.

 When the LCD monitor is completely closed, it will shut off automatically to save power even if the LCD-POWER switch is left on.

 When the LCD monitor turns off, the Viewfinder turns on automatically.

4 Start recording (see page 20).

Note:

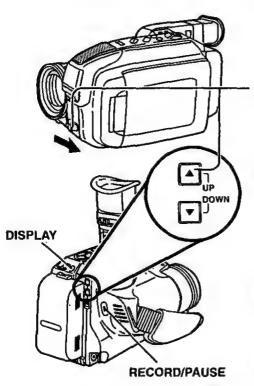
Using the LCD monitor reduces battery operating time.

 You cannot monitor the sound from the speaker during recording. Connect the earphone (M3 type, not supplied) to PHONE (earphone) jack and adjust the volume of the earphone using the VOLUME control.

Close the LCD monitor completely when not in use.

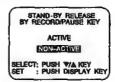
Stand-by Quick Release

Whenever the Palmcorder is left in RECORD/PAUSE mode for 5 minutes, it will automatically switch to Stand-by mode to conserve energy. Activating the Stand-by Quick Release feature allows you to release the Stand-by mode and resume recording by simply pressing the RECORD/PAUSE button. If this feature is not activated, it is necessary to turn the Palmcorder OFF and back on to CAMERA to start recording again. The default setting from the factory is set to the NON-ACTIVE mode.



Before you begin...

- Connect the Palmcorder to a power source.
- . Insert a cassette with record tab (see page 10).
- I Continue holding down the UP A button before and after turning the POWER switch to CAMERA until the STAND-BY RELEASE menu screen is displayed.
- Press UP ▲ or DOWN ▼ to select ACTIVE or NON-ACTIVE.



ACTIVE

You can resume recording from Standby mode by pressing the RECORD/ PAUSE button.

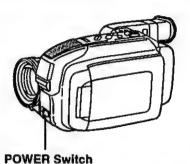
NON-ACTIVE

You must set the POWER switch to OFF, and then to CAMERA to release the Stand-by mode.

Press DISPLAY to set your selection and exit this screen.

Easy Edit Stand-by

If you stop recording but plan to resume within 24 hours, use the Edit Standby feature to make a smooth transition between scenes.



Press RECORD/PAUSE while recording.

2 Set the POWER switch to OFF and leave the cassette in the Palmcorder.

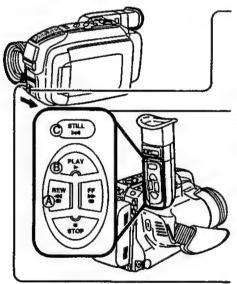
When ready to resume recording, set the POWER switch to CAMERA and press RECORD/PAUSE.

Note:

 If it is going to be longer than 24 hours before you resume recording, you will need to use the manual Easy Edit feature described below.

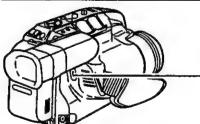
Manual Easy Editing

For proper continuity when taping from the Stop mode, or after changing the Battery Pack.



 $m{1}$ Set the POWER switch to VCR.

- 2 (A) Press REWIND/SEARCH to go back a few seconds on the tape.
 - B Press PLAY to review the picture on the Viewfinder.
 - Press STILL at the location you wish to continue your recording.



Set the POWER switch to CAMERA.

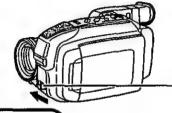
Press RECORD/PAUSE to continue recording.

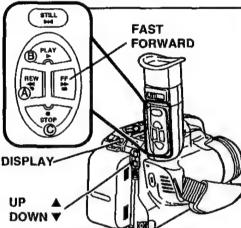
Play Back your Recordings

Playback using the EVF

Before you begin...

- · Connect the Palmcorder to a power source.
- · Insert a recorded cassette.





Special Effects Playback

To rapidly locate a scene

Press FAST FORWARD/SEARCH or REWIND/SEARCH for rapid visual search. Press again, or press PLAY to resume normal speed.

View a Still Picture

Press STILL to freeze the picture.

Press again to resume normal playback.

Note:

- During search playback, horizontal noise bars will appear and there will be no audio.
- To protect the tape and the video heads, your Palmcorder's operating modes will revert as follows:

STILL STAND-BY after 5 minutes.

STANDBY → POWER OFF after 5 minutes when using a Battery Pack.

 When the tape reaches its end during playback, or fast forward, it will rewind automatically. $oldsymbol{I}$ Set the POWER switch to VCR.

2 A Press the REWIND/SEARCH button to rewind the tape.

B Press PLAY to start playback.

© Press STOP to stop playback.

Auto Play

When the POWER switch is set to VCR, playback will automatically begin if the record tab has been removed on the cassette.

Search Speed

Standard Play (SP) Search is about 3 times the normal speed, and Super Long Play (SLP) Search is about 9 times the normal speed.

Tracking Control

Auto Tracking

Continuously analyzes the signal of each recording for optimum picture quality.

Manual Tracking

To minimize the noise in some recordings, manual tracking may be necessary.

For Noise in Playback mode:

Press UP ▲ or DOWN ▼ until picture clears.

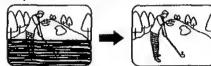
Press DISPLAY to return to Auto Tracking.

For Noise in Still mode:

Press UP ▲ or DOWN ▼ until picture clears.

V-Lock Control (Reduces jitter in Still mode.)

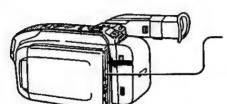
Press DISPLAY and UP ▲ or DOWN ▼ until picture is stable.



Play Back your Recordings

Playback using the LCD Monitor

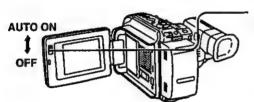
You can also use the LCD monitor to playback your recording.



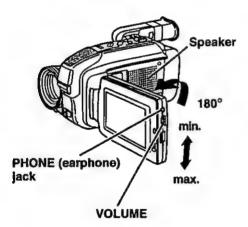
Before you begin...

- · Connect the Palmcorder to a power source.
- insert a recorded cassette.
- . Set the POWER switch to VCR.





- 2 Set the LCD-POWER switch to AUTO ON. The LCD monitor will then turn on/ off according to the Palmcorder's POWER switch setting.
 - When the LCD monitor is turned ON, the Viewfinder automatically turns OFF.
 - When not in use, close the LCD monitor. (Faces inward)



- 3 Playback the tape (see page 24).
 - Adjust the volume of the speaker or earphone (if connected) using the VOLUME control.
- 4 Set the LCD-POWER switch to OFF to have Viewfinder on only when viewing is finished.
 - When the LCD monitor is completely closed, it will shut off automatically to save power even if the LCD-POWER switch is left on.
 - When the LCD monitor turns off, the Viewfinder turns on automatically.



Note:

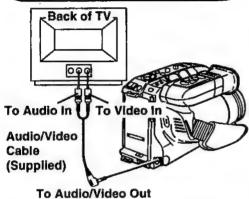
- Using the LCD monitor reduces battery operating time.
- If you connect the earphone (M3 type, not supplied) to PHONE (earphone) jack, the sound from the speaker will be muted.

Play Back your Recordings

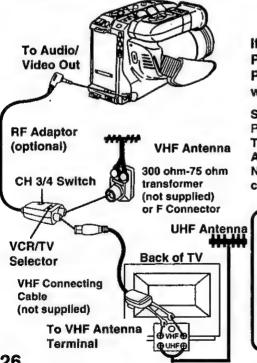
TV Playback or Viewing

Your Palmcorder may be connected to a TV to play back tapes or to view what you are recording.

TV with AUDIO/VIDEO IN Jacks.



TV without AUDIO/VIDEO IN Jacks.



Before you begin...

- Connect the Palmcorder to a power source.
- Set the POWER switch to VCR for tape playback.

Or, set to CAMERA to view what your Palmcorder is recording.

 $\mathbf{2}_{\mathsf{Turn}}$ the TV ON and set it to LINE INPUT.

Check your TV operating instructions.

If your TV has no VIDEO or AUDIO IN lacks. select CH 3 or 4 on your TV to match the CH 3/4 switch setting on the OPTIONAL PV-RF16 RF Adaptor. Set the VCR/TV selector on the RF Adaptor to VCR for playback.

Start playback or begin a recording.

If you have connected the Palmcorder to your TV using the PV-RF16 RF Adaptor and want to watch TV only:

Set the POWER switch to OFF on the Palmcorder.

Then, set the VCR/TV Selector on the RF Adaptor to TV.

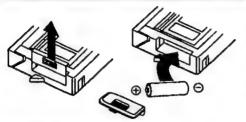
Now, turn the TV ON and select a channel.

CATV System Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Play Back your Recordings in your VCR

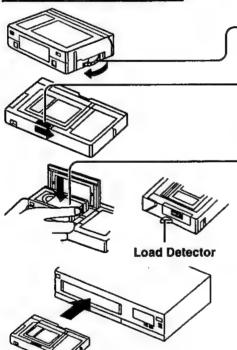
Playback using the PlayPak



Remove the Battery Compartment lid and insert the AA size battery.

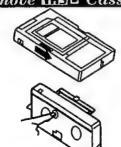
- · Make sure polarities are aligned properly.
- When tape loading and unloading time becomes longer than normal, battery replacement is necessary.

Insert WISC Cassette



- I Turn the Tape Wheel on the VHSE cassette in the direction of the arrow to take up any slack.
- 2 Slide the RELEASE button in the direction of the arrow to open the PlayPak door.
- Insert the WHSE cassette with the window facing up and to the left.
 Then, snap the lid shut.
 - Be sure the cassette reel area under the PlayPak is free to turn while loading.
 - Allow the Load Detector to fully retract before using the PlayPak in your standard VHS VCR.

Remove WSC Cassette

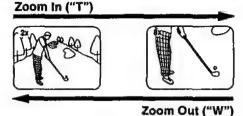


- I Slide the RELEASE button and wait for the lid to open.
- 2 Hold the PlayPak securely in one hand. Using your finger, reach through the hole in the bottom of the PlayPak Adaptor and push the tape out the top.

Four-Speed Power Zoom

You can gradually zoom in for close ups or zoom out for wide angle shots.

The zooming speed ranges from a slow speed of 16 seconds to a fast 2 seconds according to the pressure applied to the zoom buttons.



Zoom slowly by lightly pressing the "T" (Telephoto) or the "W" (Wide Angle) side of the POWER ZOOM switch.

Zoom quickly by applying more pressure.

 The magnification level is displayed in the EVF.

High Speed Shutter

To record high speed motion (e.g. a tennis stroke) for improved STILL or SLOW MOTION playback, when watching the tape on this Palmcorder or a VHS 3 or 4 head VCR.

Auto Shutter

In the AUTO mode (no indication in the EVF), the Palmcorder will automatically adjust the shutter speed from 1/60 to 1/250 according to the brightness of the subject.

AUTO mode is automatically selected whenever the POWER switch is set to CAMERA.

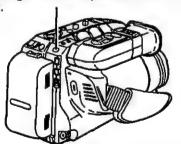
Manual Selection

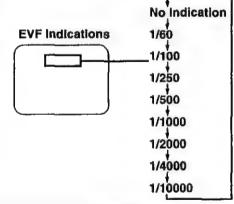
The High Speed Shutter indicator flashes when the light level is inadequate. More light should be provided to achieve better picture quality and color.

Press HIGH SPEED SHUTTER while precording.

Press repeatedly to obtain one of the eight higher shutter speeds shown at

right.



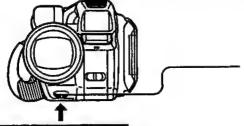


Note:

- For proper color reproduction, it is recommended that you use this feature outdoors. For indoor High Speed Shutter recording, additional halogen or tungsten light should be provided.
 Fluorescent light will degrade the picture quality.
- This feature requires ample light. More light is required for the fastest shutter speeds.
- The Auto Focus system may not operate properly in insufficient light when using the High Speed Shutter.

Auto Focus

The Palmcorder will automatically focus on the subject even during zooming.

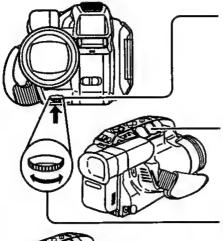


If necessary, **press MANUAL FOCUS** so that "MF" does not appear in the EVF.

Manual Focus

Use Manual Focus (MF) when recording:

- · a subject through glass.
- a subject that is far from the Palmcorder with objects in the foreground.
- a subject with distinct horizontal stripes.
- a subject not centered in the Viewfinder.
- · a subject with a shiny surface.
- an obliquely angled subject.
- · a bright, flat subject such as a white wall.
- in low light situations.
- a scene with fast motions, like a golf swing.



Press MANUAL FOCUS so that "MF" (Manual Focus) appears in the EVF. EVF Indication

MF

Press and hold the "T" side of the POWER ZOOM switch until the lens is zoomed in all the way (subject at maximum size).

3 Turn the MANUAL FOCUS control until the picture is in focus.

 It may be necessary to back away from the subject to focus the image properly.

4 Press the "W" side of the POWER ZOOM switch to frame the picture as desired.

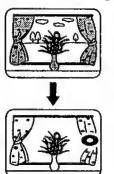
 Re-focusing may be required when your Palmcorder is aimed at a new scene.

Macro Focus (for close-ups)

Auto Focus will function as close as 1/2 inch (12.7mm) from the subject. Press the "W" side of the POWER ZOOM switch to the wide angle position. Then, bring the Palmcorder as close to the subject as desired.

Backlight

Use when recording a subject that is darker than the surrounding scene, in a shadowed area or when the light source is in back of your subject.



Indication appears in the EVF.

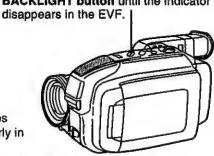
Normal (no display)
First press
(low)
Second press
(medium)

Fourth press
Select a level that makes
the subject appear clearly in
the EVF.

Third press (high)

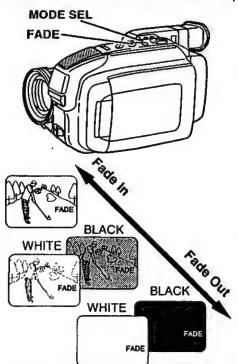
There are three levels of backlight compensation. Press the BACKLIGHT button to obtain the desired level while recording.

When lighting conditions are normal, press the BACKLIGHT button until the indicator



One-Touch Auto Fade (BLACK or WHITE only)

Make smooth scene transitions for a more professional look.



If FADE is accidentally pressed, simply press it again so that "FADE" disappears in the EVF.

Fade in:

Starting the first scene with "fade in" can be very effective.

Press the MODE SEL button repeatedly to select BLACK or WHITE fade.

2During the RECORD/PAUSE mode, press the FADE button to make "FADE" flash in the EVF.

Press the RECORD/PAUSE button.
The screen will turn black and the recording will start as picture and sound gradually fade in.

Fade Out:

Use to create a soft ending or, when used together with fade in, a soft transition from one scene to the next.

Press the MODE SEL button repeatedly to select BLACK or WHITE fade.

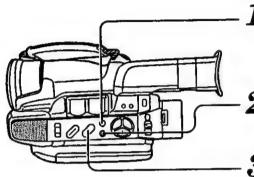
Press the FADE button to make "FADE" flash in the EVF while recording.

Press the RECORD/PAUSE button.

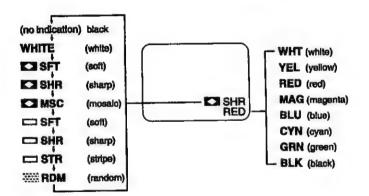
The picture and sound will gradually fade out and the recording will PAUSE.

Color Digital Fade (other than BLACK and WHITE)

This feature offers 7 fade variations in your choice of eight colors for a wide variety of fade effects.



- Press the MODE SEL button repeatedly to select the desired fade effect other than BLACK and WHITE.
 - Excluding BLACK, the mode selected will appear in the EVF.
- Press the COLOR button to select the desired color other than BLACK or WHITE.
- Hold the FADE button down while recording until the picture fades out. Release to fade back in.



■ Create more effects: You can stop the fade at any time by pressing the MODE SEL button (other than BLACK, WHITE, and RANDOM modes). Pressing the FADE button will continue the fade. Pressing the MODE SEL button will cancel the fade.

Note:

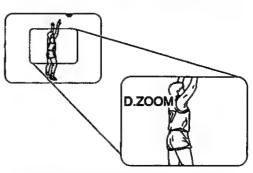
 Other than BLACK and WHITE modes, the audio is not affected by the fade operation.

Digital Zoom

This feature allows you to increase the magnification of the Power Zoom.

Before you begin...

Set the POWER switch to CAMERA.



Press the DIGITAL ZOOM button on top of the Palmcorder to select D.ZOOM mode.

Because the image is enlarged digitally, the picture may become distorted when higher magnification levels are used.

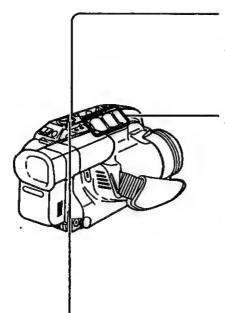
Press and hold the "T" side of the POWER ZOOM switch.

Digital Zoom engages when the Optical Power Zoom reaches its maximum of 16x.

- Zoom level is displayed in the EVF (22× maximum).
- Press the "T" or "W" side of the POWER ZOOM switch to control the digital zoom level.
- When the level falls below 16x, the optical zooming function will resume.
- If the Digital E.I.S. feature is activated (see page 33) the maximum Digital Zoom ratio will be 20x.

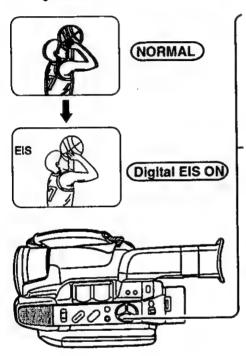
Press DIGITAL ZOOM

until no indication appears in the EVF to turn the Digital Zoom feature off. (The zoom ratio will adjust to 16x.) (refer to page 28 for normal zoom operation.)



Digital Electronic Image Stabilization System

This feature helps stabilize the picture in situations such as walking or shooting from a moving vehicle.



Before you begin...

. Set the POWER switch to CAMERA.

Press the EIS button to activate the Digital E.I.S. function. ("EIS" will appear in the EVF.)

 The Image in the EVF will be enlarged slightly and the shutter speed will automatically adjust from 1/80 to 1/250 according to the brightness of the subject.

2 Press the EIS button again to cancel.

- You may also use the High Speed Shutter function (from 1/100 to 1/ 10000). The shutter speed you select remains active even after you cancel the Digital E.I.S. function.
- Be sure that the Digital E.I.S. is turned off when not in use.

Digital E.I.S. may not function when...

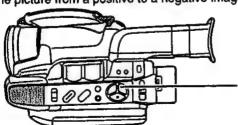
- Palmcorder movement is too extreme.
- recording a subject with distinct horizontal or vertical stripes.
- recording in low light situations.
- EIS indicator flashes when the light level is inadequate.
- recording a subject under intense fluorescent light.
- recording a scene with very fast motions.

Before you begin...

Set the POWER switch to CAMERA.

Negative/Positive Transposer

This special effect feature allows you to change the picture from a positive to a negative image.

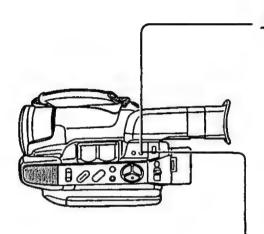


Press NEG/POS to view or record a negative image.

Press again for normal recording.

Motion Security

Great for amateur surveillance applications.



Motion Security recording may start regardless of subject motion when...

- the background is plain, such as a white wall.
- the Palmcorder is pointed at something with distinct horizontal, vertical or oblique stripes, such as a window shade.
- the brightness suddenly changes.

Motion Security recording may not start when...

- · motion is very slow or very fast.
- · moving object is very small.
- · motion is in 1 corner of the viewing area.
- In low light situations (MOTION SECURITY will flash if the light level is inadequate.)
- the background has distinct horizontal or vertical stripes.
- the background is plain, such as a white wall.

Before you begin...

- Connect the Palmcorder to a power source.
 For extended Palmcorder use, it is recommended to use the AC Adaptor as a power source.
- Insert a cassette with record tab (see page 10).
- Set the POWER switch to CAMERA.
- Aim Palmcorder at desired area.

In Record/Pause mode, hold down the SECURITY MODE button for approximately 2 seconds to place the Palmcorder in Motion Security Stand-By mode. (If no cassette tape is inserted, "[] will flash.)



- Palmcorder will start recording approximately 3 seconds after motion is detected.
- If you display the date and time (see page 15), the date and time will also be recorded.



- Recording will stop 30 seconds after the motion ceases.
- Press the SECURITY MODE button once to cancel the Motion Security feature.

Note:

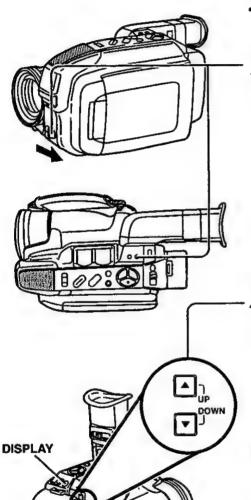
- Make sure the Palmcorder is firmly secure. If the Palmcorder is moved, the Motion Security feature will start, regardless of the subject being recorded.
- Paimcorder cannot be placed in the Motion Security Stand-By mode during recording.
- Record/Pause, Stand-By mode, Digital E.I.S., Color Digital Fade, One-Touch Auto Fade and Negative/Positive Transposer can not be activated while Palmcorder Is in the Motion Security Stand-By mode.

Tally ON/OFF during Motion Security Recording

You can choose to have the Tally lamp come on or stay off during Motion Security recording. The Palmcorder is set to TALLY LAMP OFF from the factory.

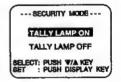
Before you begin...

- Connect the Palmcorder to a power source.
- · Insert a cassette with record tab (see page 10).



Continue holding down the SECURITY MODE button before and after turning the POWER switch to CAMERA until the SECURITY MODE menu screen is displayed.

Press UP ▲ or DOWN ▼ to select TALLY LAMP ON or TALLY LAMP OFF.



TALLY LAMP ON

Tally Lamp comes on during Motion Security recording.

TALLY LAMP OFF

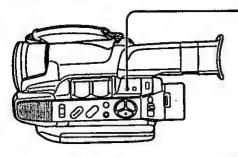
Tally Lamp stays off during Motion Security recording.

Press the DISPLAY button to set your selection and exit this screen.

Intelligent Titler

On selected holidays, such as New Year's Day, the Palmcorder will automatically display the appropriate title when the power is first turned on.

Automatic Title Display



Before you begin...

- Connect the Palmcorder to a power source.
- Insert a cassette with record tab (see page 10).

To record the automatically displayed title, press the RECORD/ PAUSE button.

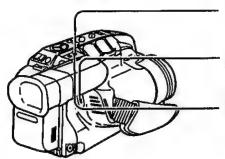
To remove the title while recording, press the TITLE button.

Note:

- You can display HAPPY ANNIVERSARY, HAPPY BIRTHDAY, VACATION, WEDDING DAY, or A SPECIAL DAY by pressing TITLE button repeatedly in Record/Pause mode.
- The Palmcorder will not automatically display a title once it has been removed. To redisplay the title, press TITLE in Record/Pause mode.

Dec. 31-Jan. 1	HAPPY NEW YEAR! / CHEERS!
Feb. 14	VALENTINE'S DAY / BE MY VALENTINE
2nd Sunday in May	HAPPY MOTHER'S DAY / WE LOVE YOU
Last Monday in May	MEMORIAL DAY
3rd Sunday in Jun.	HAPPY FATHER'S DAY / WE LOVE YOU
Jul. 4	INDEPENDENCE DAY
1st Monday in Sep.	LABOR DAY
Oct. 31	HAPPY HALLOWEEN
4th Thursday in Nov.	HAPPY THANKSGIVING
Dec. 24-25	MERRY CHRISTMAS / HO! HO! HO!
These Titles must be	HAPPY EASTER
displayed manually.	HAPPY ANNIVERSARY
	HAPPY BIRTHDAY
•	VACATION
	WEDDING DAY
	A SPECIAL DAY

Manual Title Display



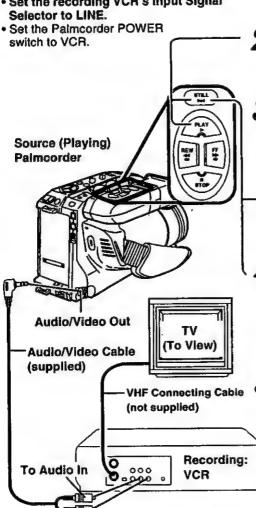
- In Record/Pause mode, press the TITLE button repeatedly to display the desired title from the list shown above.
- 2 Press the RECORD/PAUSE button to record the displayed title.
- Press the TITLE button while recording to remove the title.

Copying your Tapes (dubbing

Main Operation

Before you begin...

- Connect the Palmcorder to VCR as shown below.
- Turn ON both units.
- Set the recording VCR's Input Signal



Insert a pre-recorded tape into the Palmcorder and a blank tape with a recording tab into your VCR.

Press PLAY on the Palmcorder and when you find the starting point, press STILL.

Press PLAY and REC together on your VCR and then immediately press STILL/PAUSE.

VCR Buttons

Press STILL on the Palmcorder and press STILL/PAUSE on the VCR to simultaneously start both units.

Press STOP on both units when dubbing is complete.

Note:

- Tapes recorded on other VCRs and used for playback in the Palmcorder must be recorded in SP or SLP mode.
- · For technical reasons, dubbing a tape may reduce its quality.

CAUTION: -

Unauthorized exchanging and/or copying of copyrighted recordings may be copyright Infringement.

To Video In Monitor with your TV

- Turn the TV ON and select its VCR channel (CH3 or CH4).
- Set the VCR/TV Selector on the recording VCR to VCR.

Palmcorder Accessory System

For ordering instructions, see the Accessory Order Form page.

Accessory #	Figure	Description	Price
PV-A17		AC Adaptor with DC Power Cable	\$130.00
PV-BP17	3	2.4Ah Battery Pack	\$50.00
PV-BP18		1.8Ah Battery Pack	\$45.00
PV-BP15		1.2Ah Battery Pack	\$45.00
PV-C16		Car Battery Cord	\$70.00
PV-RF16		RF Adaptor	\$40.00
PV-P1		VHS PlayPak	\$35.00
PV-H18		Soft Sided Carrying Case	\$49.00

Your Information

Palmcorder Accessory Order Form

Please pho	tocopy this	form when	placing	an order		
Palmcorder		101111 1111211	P	,	•	
2. Items Order						
Accessory #	Descripti	on Price	Each	Quantity		Total Price
	-					
						<u> </u>
					total	
		You	r State 8	Local Sales	Tax	
			Shi	pping & Hand	iling	5.00
				Total Enclo	sed	
3. Method of p	•	•			•	
☐ Check	of Money Orde	er enclosed (NO	C.O.D.	SHIPMENTS)		
☐ VISA	Cre	dit Card #				
MasterCard Expiration Date						
☐ Discover Customer Signature					***	
	Ma	ake Check or M	oney Or	der to: MATS	USHIT	A ACCESSORI
(Please do not	send cash)					
4. Shipping inf	ormation (UPS	S delivery requir	es comp	lete street ad	dress)	
Ship To:						
Mr. Mrs.						
Ms		Last		Phone	#:	
That		Last		Day	()
Street A	ddress			Alleba		
City		State	Zip	Night	()
•	NY OF OUR OM	NIMOVIE/PALMO			SYOU	CAN DO ANY OF
	VISI	T YOUR LOCAL				
LOCATE VO	UD AUTHODIZE	O ACCESSORY	OR STOCKI	IO DISTRIBILI	TA DO	1-900-545-2672
LUCATE TO	UH AUTHUNIZE		STOCKII DR	NG DISTRIBUTE	UNA	1*000*345*20*2

CALL PANASONIC'S ACCESSORY ORDER LINE AT 1-800-332-5368 [6 AM-6 PM M-F, 6-10:30 SAT PACIFIC TIME]

OR

MAIL THIS ORDER TO: PANASONIC SERVICES COMPANY ACCESSORY ORDER OFFICE 20421 84th Avenue South Kent, WA. 98032

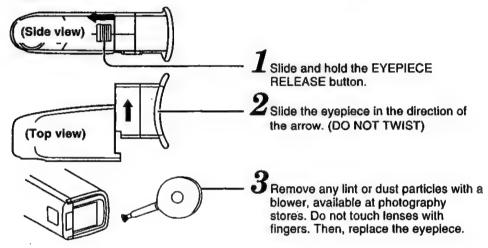
Notes Regarding Operations

Attaching Optical Filters and Lenses

Be careful not to touch the lens itself when attaching optical filters and lenses.

Cleaning the EVF (Electronic Viewfinder)

To Remove



FCC Warning: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with Part 15 and part 18 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when operated in a residential environment.

If this equipment does cause Interference to radio or television reception, which can be determined by turning the equipment off and on, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

If necessary, consult the dealer or an experienced radio/TV technician for help. You may find the booklet, 'Something About Interference' available from FCC local regional offices helpful.

Specifications

Compact VHS Palmcorder: DC 6V Power Source:

AC Adaptor: 110/120/220/240V AC, 50/60 Hz

Battery: Nickel-Cadmium Type DC 6V

Compact VHS Palmcorder: 6V DC 10 W (Max. 13 W) **Power Consumption:**

AC Adaptor: 24W

1.2W (when not in use.)

EIA Standard (525 lines, 60 fields) NTSC color signal Video Signal:

4 rotary heads plus flying erase head, helical scanning system Video Recording System:

Sequential color difference field reverse system Pick-Up System:

One integral color filter Charge Coupled Device (CCD) Pick-Up Device:

16:1 zoom lens, F1:1.6 with auto iris control Lens:

Focal length: 5.3mm - 84.8mm

Power zoom function Lens filter diameter: 58mm

Viewfinder: 0.5 Inch (12.7mm) Liquid Crystal Color Electronic Viewfinder

LCD Monitor: 3.2 inch (81.2mm) Liquid Crystal Display

0.8 lx (F1:1.6) 0.08 footcandles Minimum Illumination Required:

5 lx (F1:1.6) 0.5 footcandles (EIA Standard)

Earphone Jack: M3 Type

Operating Temperature: 32°F~104°F (0°C~40°C)

10%~75% Operating Humidity:

Compact VHS Palmcorder: 2.7 lbs. Weight: · 1.20 kg

0.77 lbs. AC Adaptor: 0.35 kg

Dimensions: Compact VHS Palmcorder:

4-7/8 (W) × 4-5/8 (H) × 7 (D) inch 125 (W) × 116 (H) × 177 (D) mm AC Adaptor: 2-3/4 (W) × 1-5/8 (H) × 5-3/4 (D) inch 70 (W) × 41 (H) × 145 (D) mm

Weight and dimensions shown are approximate. Designs and specifications are subject to change without notice.

Before Requesting Service

Cleaning Care for Video Heads



Clogged Video Head

- (a) Video Head Cleaning: Your Palmcorder will not normally require head cleaning; however, it is possible that the heads may become cloqued when playing an old or damaged tape. If the image on your screen resembles the photograph on the left while playing back a tape, the heads may require cleaning.
- (b) Cleaning the Heads: It is recommended that head cleaning be performed by a qualified service technician. Please contact your nearest Panasonic Service Center. An alternate solution is to obtain a head cleaning cassette. There are many types of cleaning cassettes, so be sure to follow the cleaning instructions carefully. Excessive use of the cleaning cassette could shorten head life. Use this cassette only when a head cloquing symptom occurs.

Refer servicing to qualified service personnel. **Auto-Reset**

The Palmcorder, provided no tape is inserted, will reset the Backlight, High Speed Shutter and Focus to their AUTO or OFF modes if, after activation, none of these buttons are pressed within 5 minutes.

Before Requesting Service

If you have a problem with your Palmcorder, it may be something you can correct yourself. Check the list below for symptoms and corrections.

Symptom	Correction		
No picture in the EVF	Make sure a Power Source is connected.(pp. 7,9) Make sure the POWER switch is set to VCR or CAMERA. (pp. 20, 24) Check the Dew Indicator. (p. 17) Make sure the battery is fully charged. (p. 7) Make sure all necessary cables are connected correctly and firmly. (p. 26)		
Video cassette can't be inserted	 Make sure a Power Source is connected.(pp.7,9) Insert the cassette with the window side facing out. (p. 10) 		
Video cassette can't be removed	Make sure a Power Source is connected.(pp.7,9)		
No operation starts when operation buttons are pressed	Check the Dew Indicator. (p. 17)		
Recording cannot be done	Make sure the record tab is still intact. (p. 10) Check the Battery Indicator. (p. 15) Check the Dew Indicator. (p. 17)		
Auto Focus does not operate	Make sure the FOCUS button is set to AUTO. (p. 29 Make sure the unit is ON, with the POWER switch set to CAMERA (p. 20).		
Sound from microphone can't be monitored	Make sure the unit is set to REC or Record/Pause mode.		
Camera picture is too dark	Make sure the HIGH SPEED SHUTTER button is OFF (p. 28).		
No playback picture, or the playback picture is noisy or contains streaks	 Press the Clock Set UP ▲/DOWN ▼ button during playback (Tracking Control) (p. 24). 		
During playback, the picture shows motion or blurred action	 Portions of the still picture where the normal speed motion was particularly rapid may produce this effect. This is normal. 		
"Panasonic IT'S VHSI SO ITS TAPES PLAY IN YOUR VCR" appears in the EVF and Monitor	Set the POWER switch to CAMERA, and then hold down STOP for 5 seconds (approx).		
If the top of your playback picture waves back and forth excessively	Because the playback signal is not as stable as an off the air TV signal, the top of your TV screer may be bent or unstable when the tape is played back. This symptom is more noticeable when a tape, recorded on another VCR, is played back. To solve this problem, locate the horizontal hold control on your TV. Turn it slowly to correct the wavy picture. If your TV does not have a horizontal hold control or adjusting the control does not help, some modifications may have to be made to the TV set. Technically this is called "Horizontal AFC time constant change." If such a problem exists, please contact your local TV service center. (Some nominal service charges may be required.)		

For Your Intormation

Request for Service Notice

Please photocopy this form when making a request for service notice.

Request	for	Service	Notice:

In the unlikely event this product needs service.

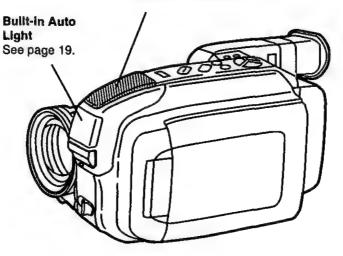
- Please include your proof of purchase.
 (Failure to due so will delay your repair.)
- To further speed your repair please provide an explanation of what is wrong with the unit and any symptom it is exhibiting.

Mail this completed form and your Proof of Purchase along with your unit to: Panasonic Services Company

1705 N. Randall Road Elgin, IL. 60123-7847 Attn: Camcorder Repair

Front View

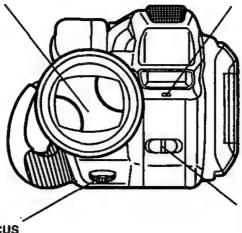
Built-In Twin Capsule 2-Way Microphone System



Built-in Lens Cover

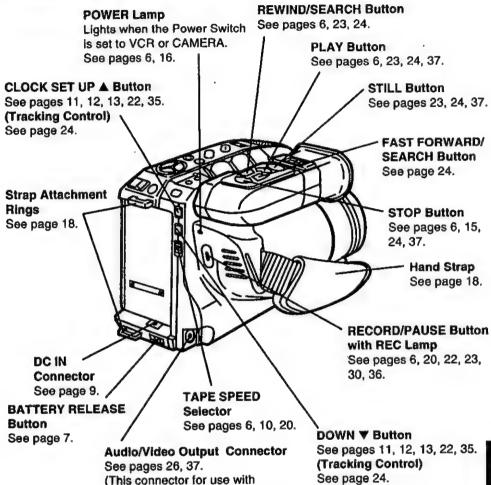
Opens automatically when the Power Switch is set to

CAMERA. See pages 6, 20. Tally Lamp See page 20.

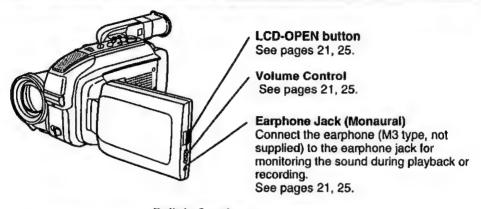


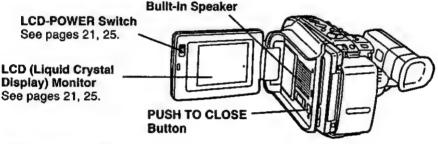
MANUAL FOCUS Wheel See page 29. POWER Switch See pages 6, 15, 19, 20, 22, 23, 24, 26, 35.

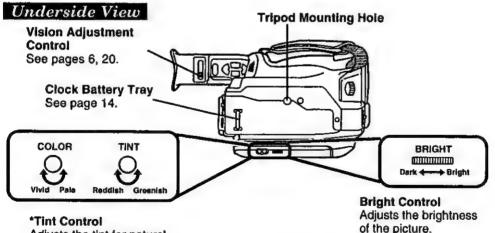
Rear View



supplied Audio/Video cable only.)







*Tint Control
Adjusts the tint for natural fleshtones.

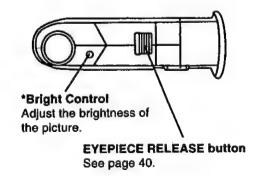
*Color Control
Adjusts the color intensity.

*Note: These controls have been set at the factory. It is not necessary to adjust these controls under normal circumstances. But, should it become necessary, be careful to make the adjustment with a small, slender screwdriver so as not to damage the miniature control.

Top View DIGITAL ZOOM Button MODE SEL Button See page 32. SECURITY MODE See pages 30, 31. Button See pages 34, 35. POWER ZOOM **TITLE Button** Switch See page 36. HIGH SPEED See pages 28, 29, 32. SHUTTER Button See page 28. **Electronic Viewfinder** (EVF) See pages 15, 16, 17, 40. **DISPLAY Button** See pages 11, 12, 13, 15, 22, 35, **LIGHT Switch** (Auto Tracking) See page 19. See page 24. TAPE EJECT Switch See pages 6, 10, 20. **BACKLIGHT COLOR Button** Button **NEG/POS Button** See page 31. See page 30. See page 33. **FADE Button**

EIS Button

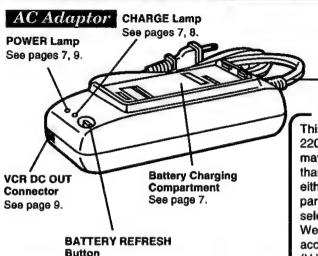
See page 33.



See pages

30, 31,

*Note: This control has been set at the factory. It is not necessary to adjust this control under normal circumstances. But, should it become necessary, be careful to make the adjustment with a small, slender screwdriver so as not to damage the miniature control.



_ AC Power Cord See pages 7, 8, 9.

CAUTION:-

This unit will operate on 110/120/220/240V AC. An AC plug adaptor may be required for voltages other than 120V AC. Please contact either a local or foreign electrical parts distributor for assistance in selecting an alternate AC plug. We recommend using the accessory power plug adaptor (VJSS0070) in an area which has special AC outlets.

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See page 8.

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Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America One Panasonic Way Secaucus, New Jersey 07094 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. Ave. 65 de Infantería. Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

PANASONIC/QUASAR Video Products Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair this product with new or refurbished parts; free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

PRODUCT CAMCORDER	PARTS ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCDIMAGE SENSOR - SIX (6) MONTHS	LABOR NINETY (90) DAYS NINETY (90) DAYS
VCR	ONE (1) YEAR	NINETY (90) DAYS
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS
MONITOR-VCR	ONE (1) YEAR, EXCEPT CRT	NINETY (90) DAYS
	CRT - TWO (2) YEARS	CRT- NINETY (90) DAYS
1		CUSTOMER PAYS ALL
1		LABOR CHARGES
		AFTER 90 DAYS

Monitor-VCR In-home or carry-in Service: 19" (diagonal) CRT / LCD and Larger Monitor-VCR Carry-in Service: 18" (diagonal) CRT / LCD and smaller

<u>Batteries</u> (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.

<u>Tape</u> (if included) - New video cassette tape in exchange for a defective video cassette tape for

five (5) days.

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free 1-800-545-2672, to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is requires before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls,

adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above. THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from

state to state.

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If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER.

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Warranty

PRODUCT INFORMATION • OPERATION ASSISTANCE • LITERATURE REQUESTS • DEALER LOCATIONS

Customer Service Center 2F-3, One Panasonic Way, Secaucus, NJ 07094 (Headquarters) 201-348-9090 (9:00am-8:00pm Monday-Friday, EST)

ACCESSORY PURCHASES

1-800-332-5368 (Consumer Orders Only) Panasonic Services Company 20421 84th Avenue South Kent, WA 98032 (6 am to 6 pm Monday-Friday; 6 am to 10:30 am Saturday; PST) (Visa, Mastercard, Discover card, American Express, Check)

AUTHORIZED SERVICENTERS • PARTS DISTRIBUTOR LOCATIONS

To locate an independent authorized servicenter or parts distributor in your area, within the USA dial toll free 1-800-545-2672, 24 hours a day, 7 days a week.

PRODUCT REPAIRS

MAIL TO:

Centralized Factory Servicenter

Panasonic Services Company 1705 N. Randall Road. Elgin, IL 60123-7847

Attention: Camcorder Repair

Please carefully pack and ship, prepaid and insured, to the Eigin centralized repair Factory Servicenter. While there will be added handling delays, you may bring your unit to one of the following locations who will then forward the unit to Elgin for repair.

Customer's In Puerto Rico, please ship or carry in to location below ("Service in Puerto Rico").

Factory Servicenters

CALIFORNIA CALIFORNIA 6550 Katella Avenue Cypress, CA 90630 Phone (714) 373-7426 Fax (714) 894-8534 800 Dubuque Avenue S. San Francisco, CA 94080 Phone (415) 871-8373 Fax (415) 871-8840 20201 Sherman Way Suite 102 Canoga Park, CA 91306 Phone (818) 709-1775 Fax (818) 709-2165 3878 Ruffin Road Suite A San Diego, CA 92123 Phone (619) 560-9200 Fax (619) 560-1831 COLORADO 1640 South Abilens Suits D Aurora, CO 80012 Phone (303) 752-2024 Fax (303) 752-0610

FLORIDA

3700 North 29th Avenue Suite 102 Hollywood, Fl. 33020 Phone (954) 925-2880 Fax (954) 925-5224 4710 Eisenhower Boulevard Suite A1

Tampa, FL 33634 Phone (813) 884-4746 Fax (813) 886-4564

GEORGIA 8655 Roswell Road Suite 100 Atlanta, GA 30350 Phone (770) 518-6301 Fax (770) 518-6306 HAWAII 99-859 lwalwa Street Alea, Hawaii 96701 Phone (808) 488-1998 Fax (808) 486-4369 ILLINOIS *1703 North Randall Road Elgin, IL 60123 *12:30 to 4:30, Mon-Fri* Phone (847) 488-5484 Fax (847) 488-5485 9060 Golf Road Niles, IL 60714 Phone (847) 608-1010 Fax (847) 299-1710 MARYLAND MARYLAND Sulphur Springs Business Park 1638 Sulphur Springs Road Batimore, MD 21227 Phone (410) 242-2607 Fax (410) 247-3047 MASSACHUSETTS 80 Glacier Drive, Suite G Westwood, MA 02090 Phone (617) 329-4280 Fax (617) 329-0586

*Pick-up/drop-off only

MICHIGAN 37048 Van Dyke Avenue Sterling Helphts, MI 48312 Phone (810) 939-2060 Fax (810) 939-2638

MINNESOTA 7850-12th Avenue South Airport Business Center Bloomington, MN 55425 Phone (612) 854-8624 Fax (612) 854-2089

OHIO 2236 Waycross Road Cincinnati, OH 45240 Phone (513) 851-4180 Fax (513) 851-8443 PENNSYLVANIA 2221 Cabot Boulevard West Suite B Langhome, PA 19047 Phone (215) 741-0661 Fax (215) 741-0521

Chartiers Valley Shopping Certer 1025 Washington Pike Bridgeville, PÅ 15017 Phone (412) 257-4522 Fax (412) 257-4650

TENNESSEE 919-8th Avenue South Nashville, TN 37203 Phone (615) 244-4434 Fax (615) 244-6713 WASHINGTON 20425-84th Avenue South Kent, WA 98032 Phone (208) 872-7922 Fax (206) 872-0918

7482 Harwin Drive Houston, TX 77036 Phone (713) 781-1528 Fax (713) 781-0643

Farmers Branch, TX 75244 Phone (972) 385-1975 Fax (972) 980-7626

13815 Welch Road Suite 101

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ ranasonic Sales Company/ Factory Servicenter Ave. 65 de Infanteria. Km. 9.5 San Gabriel Industrial Park Carolina, Puerlo Rico 00985 Phone (787) 750-4300 Fax (787) 758-2910

REPAIR INQUIRIES

Regional Customer Care Department

WI. OH

EAST(PCE) 2221 Cabot Boulevard West Suite A Langhome, PA 19047 Phone (215) 741-0876 Fax (215) 750-6492 Covers: CT, DE, ME, MD, MA, NH, NJ, NY, PA, RI, VT, VA, DC, WV EAST (PCE) 1225 Northbrook Parkway Suite 2-390 Suwanee, GA 30174 Phone (770) 338-6860 Fax (770) 338-6548 Covers: AL, FL, GA, MS, NC, SC, TN CENTRAL (PCC) 1707 North Randall Road Eigin, IL 60123 Phone (847) 468-5530 Fax (847) 468-5528 AR, IL, IN, IA, KS, KY, LA, MI, MN, MO, NE, ND, OK, SD, TX,

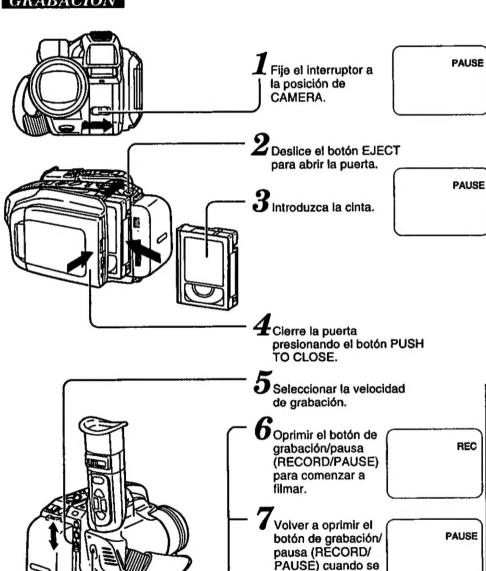
WEST (PCW) 6550 Katella Avenue Cypress, CA 90630 Phone (714) 373-7440 Fax (714) 373-7447 Covers: AK, AZ, CA, CO, ID, MT, NV, NM, OR, UT, WA, WY, HI

Spanish Quick Use Guide/Guía Para Uso Rápido

PREPARATIVOS

- Conectar la videocámara a una fuente de alimentación (batería, adaptador de CA o cable para batería de coche).
- Encender el aparato.
- Introducir el casete en el compartimiento de casetes.

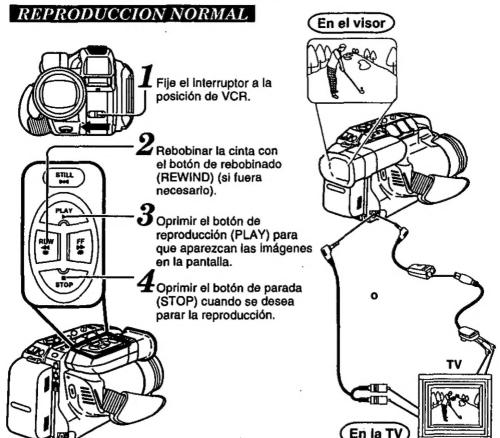
GRABACION



desea hacer una pausa en la grabación.

Spanish Quick Use Guide/Guía Para Uso Rápido

- Conectar la videocámara a una fuente de alimentación (batería, adaptador de CA o cable para batería de coche).
- Encender el aparato.
- Introducir el casete en el compartimiento de casetes.



REPRODUCCION CON EFECTOS ESPECIALES

PARA LOCALIZAR RAPIDAMENTE UNA ESCENA ESPECIFICA

Oprimir el botón de localización (SEARCH).

PARA CONGELAR UNA IMAGEN

- Oprimir el botón de pausa/imagen fija (PAUSE/STILL).
- Oprimir nuevamente el botón cuando se desea continuar reproduciendo.

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America One Panasonic Way Secaucus, New Jersey 07094 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. ("PSC") Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

